

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Cancelled)
2. (Previously Presented) The computer program product of claim 55, wherein the program configures representative data of the movant solid shape as having a particular attribute in accordance with an attribute of the target solid shape.
3. (Previously Presented) The computer program product of claim 55, wherein the program configures the movant solid shape as having a particular size or dimension for compatibility with the target solid shape.
4. (Previously Presented) The computer program product of claim 55, wherein the program configures the movant solid shape as having a particular position relative to the target solid shape.
5. (Previously Presented) The computer program product of claim 55, wherein the program configures the movant solid shape as having a particular physical orientation relative to the target solid shape.
6. (Cancelled)
7. (Previously Presented) The computer program product of claim 57, wherein the computer program configures representative data of the movant solid shape as having a particular attribute in accordance with a predetermined rule.

8. (Previously Presented) The computer program product of claim 57, wherein the predetermined rule is used to configure the movant solid shape as a particular member of a class of solid shapes represented by a generic solid shape.

9. (Previously Presented) The computer program product of claim 57, wherein the program uses the predetermined rule to configure the movant solid shape as a preferred procurement item.

10. (Original) The computer program product of claim 9, wherein the program uses the predetermined rule to configure the movant solid shape as a preferred procurement item supplied by a preferred vendor.

11. (Original) The computer program product of claim 9, wherein the program uses the predetermined rule to configure the movant solid shape as a preferred procurement item in accordance with inventory or availability.

12. (Cancelled)

13. (Cancelled)

14. (Cancelled)

15. (Cancelled)

16. (Cancelled)

17. (Cancelled)

18. (Cancelled)

19. (Cancelled)

20. (Previously Presented) The computer program product of claim 56, wherein the configuration information includes procurement information which enables the program to use the non-positional rule to determine a procurement item for the movant solid shape.

21. (Previously Presented) The computer program product of claim 20, wherein the procurement information indicates multiple candidate vendors for the movant solid shape; and wherein the program uses the non-positional rule to determines a preferred vendor for the movant solid shape.

22. (Previously Presented) The computer program product of claim 21, wherein the program determines a preferred vendor for the movant solid shape based on the non-positional rule to.

23. (Original) The computer program product of claim 20, wherein the procurement information indicates multiple candidate procurement items for the movant solid shape; and wherein the program determines a preferred procurement item for the movant solid shape.

24. (Previously Presented) The computer program product of claim 56, wherein the program determines a preferred procurement item for the movant solid shape based on the non-positional rule to.

25. (Previously Presented) The computer program product of claim 24, wherein the non-positional rule relates to inventory criteria or availability criteria.

26. (Currently Amended) The computer program product of claim 24, wherein the non-positional rule relates to vendor criteria.

27. (Cancelled)

28. (Cancelled)

29. (Previously Presented) The system of claim 64, wherein the program configures the movant solid shape as having a particular size or dimension for compatibility with the target solid shape.

30. (Previously Presented) The system of claim 64, wherein the program configures the movant solid shape as having a particular position relative to the target solid shape.

31. (Previously Presented) The system of claim 64, wherein the program configures the movant solid shape as having a particular physical orientation relative to the target solid shape.

32. (Cancelled)

33. (Cancelled)

34. (Previously Presented) The system of claim 64, wherein the predetermined rule is used to configure the movant solid shape as a particular member of a class of solid shapes represented by a generic solid shape.

35. (Previously Presented) The system of claim 64, wherein the program uses the predetermined rule to configure the movant solid shape as a preferred procurement item.

36. (Previously Presented) The system of claim 64, wherein the program uses the predetermined rule to configure the movant solid shape as a preferred procurement item supplied by a preferred vendor.

37. (Previously Presented) The system of claim 64, wherein the program uses the predetermined rule to configure the movant solid shape as a preferred procurement item in accordance with inventory or availability.

38. (Cancelled)

39. (Cancelled)

40. (Cancelled)

41. (Cancelled)

42. (Cancelled)

- 43. (Cancelled)
- 44. (Cancelled)
- 45. (Cancelled)
- 46. (Cancelled)
- 47. (Cancelled)
- 48. (Cancelled)
- 49. (Cancelled)
- 50. (Cancelled)
- 51. (Cancelled)
- 52. (Cancelled)
- 53. (CANCELLED)

54. (Currently Amended) The computer program product of claim ~~53~~58, wherein when multiple candidate connector objects of the target solid shape exist, the program makes a selection from among the multiple candidate connector objects based on a predetermined rule.

55. (Currently Amended) The computer program product of claim ~~58~~53, wherein in positioning and displaying the movant solid shape and the target solid shape relative to one another, the program configures one of the movant solid shape and the target solid shape in accordance with the configuration information of at least one of the respective connector objects.

56. (Currently Amended) The computer program product of claim ~~58~~53, wherein the program makes the selection from among the multiple appropriate connector objects based on a non-positional rule.

57. (Currently Amended) The computer program product of claim ~~58~~53, wherein the program configures the movant solid shape as having a particular attribute in accordance with a predetermined rule.

58. (Currently Amended) A computer program product which provides a visual depiction of a three dimensional object upon a display device, the program comprising computer readable coded instructions stored in a memory, the computer readable coded instructions being executable on a processor to which information is input via a user input device, wherein when executed the computer program:

makes a selection of at least one candidate connector object of multiple possible connector objects of a target solid shape for matching with a particular connector object of a movant solid shape, the selection being based on connector object information of the at least one candidate connector object and the particular connector object of the movant solid shape, the movant solid shape having one or more connector objects including the particular connector object;

displays the target solid shape and the movant solid shape in accordance with the matching and in accordance with configuration information of at least one of the connector objects which are matched~~The computer program product of claim 53,~~

wherein the program makes the selection from among the multiple appropriate connector objects based on a rule of a rule database, the rule database can either comprising or operating in conjunction with an enterprise resource planning (ERP) system.

59. (Currently Amended) A computer program product which provides a visual depiction of a three dimensional object upon a display device, the program comprising computer readable coded instructions stored in a memory, the computer readable coded instructions being executable on a processor to which information is input via a user input device, wherein when executed the computer program:

makes a selection of at least one candidate connector object of multiple possible connector objects of a target solid shape for matching with a particular connector object of a movant solid shape, the selection being based on connector object information of the at least one candidate connector object and the particular connector object of the movant solid shape, the movant solid shape having one or more connector objects including the particular connector object;

displays the target solid shape and the movant solid shape in accordance with the matching and in accordance with configuration information of at least one of the connector objects which are matched~~The computer program product of claim 53,~~  
wherein the program makes the selection from among the multiple appropriate connector objects based on a boundary condition criteria.

60. (CANCELLED)

61. (Currently Amended) The modeling system of claim ~~60~~65, wherein when multiple candidate connector objects of the target solid shape exist, the program makes a selection from among the multiple candidate connector objects based on a predetermined rule.

62. (Currently Amended) The modeling system of claim ~~65~~60, wherein in positioning and displaying the movant solid shape and the target solid shape relative to one another, the program configures one of the movant solid shape and the target solid shape in accordance with the configuration information of at least one of the respective connector objects.

63. (Currently Amended) The modeling system of claim ~~65~~60, wherein the program makes the selection from among the multiple appropriate connector objects based on a non-positional rule.

64. (Currently Amended) The modeling system of claim ~~65~~60, wherein the program configures the movant solid shape as having a particular attribute in accordance with a predetermined rule.

65. (Currently Amended) A three dimensional geometric modeling system comprising:

a processor which executes a program comprising set of coded instructions stored in a memory;

a display device upon which, when executed, the program provides a visual depiction of a three dimensional object comprising at least one solid shape,

a user input device for inputting information to the processor;

wherein the processor in executing the program, and in response to communication via the user input device of insertion of a movant solid shape into a context including a target solid shape:

makes a selection of at least one candidate connector object of multiple possible connector objects of a target solid shape for matching with a particular connector object of a movant solid shape, the selection being based on connector object information of the at least one candidate connector object and the particular connector object of the movant solid shape, the movant solid shape having one or more connector objects including the particular connector object;

displays the target solid shape and the movant solid shape in accordance with the matching and in accordance with configuration information of at least one of the connector objects which are matched~~The modeling system of claim 60,~~

wherein the program makes the selection from among the multiple appropriate connector objects based on a rule of a rule database, the rule database ~~can~~ either comprising or operating in conjunction with an enterprise resource planning (ERP) system.



66. (Currently Amended) A three dimensional geometric modeling system comprising:

a processor which executes a program comprising set of coded instructions stored in a memory;

a display device upon which, when executed, the program provides a visual depiction of a three dimensional object comprising at least one solid shape,

a user input device for inputting information to the processor;

wherein the processor in executing the program, and in response to communication via the user input device of insertion of a movant solid shape into a context including a target solid shape:

makes a selection of at least one candidate connector object of multiple possible connector objects of a target solid shape for matching with a particular connector object of a movant solid shape, the selection being based on connector object information of the at least one candidate connector object and the particular connector object of the movant solid shape, the movant solid shape having one or more connector objects including the particular connector object;

displays the target solid shape and the movant solid shape in accordance with the matching and in accordance with configuration information of at least one of the connector objects which are matched~~The modeling system of claim 60,~~

wherein the program makes the selection from among the multiple appropriate connector objects based on a boundary condition criteria.

67. (CANCELLED)

68. (CANCELLED)

69. (New) The computer program product of claim 59, wherein when multiple candidate connector objects of the target solid shape exist, the program makes a selection from among the multiple candidate connector objects based on a predetermined rule.

70. (New) The computer program product of claim 59, wherein in positioning and displaying the movant solid shape and the target solid shape relative to one another, the program configures one of the movant solid shape and the target solid shape in accordance with the configuration information of at least one of the respective connector objects.

71. (New) The computer program product of claim 59, wherein the program makes the selection from among the multiple appropriate connector objects based on a non-positional rule.

72. (New) The computer program product of claim 59, wherein the program configures the movant solid shape as having a particular attribute in accordance with a predetermined rule.

73. (New) The modeling system of claim 66, wherein when multiple candidate connector objects of the target solid shape exist, the program makes a selection from among the multiple candidate connector objects based on a predetermined rule.

74. (New) The modeling system of claim 66, wherein in positioning and displaying the movant solid shape and the target solid shape relative to one another, the program configures one of the movant solid shape and the target solid shape in accordance with the configuration information of at least one of the respective connector objects.

75. (New) The modeling system of claim 66, wherein the program makes the selection from among the multiple appropriate connector objects based on a non-positional rule.

76. (New) The modeling system of claim 66, wherein the program configures the movant solid shape as having a particular attribute in accordance with a predetermined rule.